

IN THE CLAIMS

1. (Original) Multi-processor computer system comprising

- at least two processors (1) for parallel execution of processes,
- at least two cache memory units (2), each being associated with and connected to a separate processor (1),
- a connection bus (4) connecting said processors (1) and said cache memory units (2), and
- a process list unit (3) connected to said connection line (4) for storing a process list of processes to be available for execution by said processors (1),

wherein said processors (1) are adapted for loading a global wake-up variable signalling process additions of processes to said process list into their associated cache memory unit (2), for switching into a low-power mode if said process list contains no process for execution by said processors (1) and for switching into a normal-power mode if said wake-up variable signals an addition of a process to said process list.

2. (Original) Multi-processor computer system as claimed in claim 1, wherein said processors (1) are adapted to switch into the normal-power mode if the wake-up variable held in the associated cache memory units (2) is changed due to an addition of a process to said process list.

3. (Original) Multi-processor computer system as claimed in claim 1, wherein said processors (1) are adapted to execute a store command on the wake-up variable when adding a process to said process list.

4. (Original) Multi-processor computer system as claimed in claim 1, wherein said processors (1) are adapted to send a request to other processors to drop the

wherein said computer system is adapted for implementing an invalidation based cache coherence protocol.

6. (Original) Processor for use in a multi-processor computer system comprising

- at least two processors (1) for parallel execution of processes,
 - at least two cache memory units (2), each being associated with and connected to a separate processor (1),
 - a connection bus (4) connecting said processors (1) and said cache memory units (2), and
 - a process list unit (3) connected to said connection line (4) for storing a process list of processes to be available for execution by said processors (1),
- wherein said processor (1) is adapted for loading a global wake-up variable signalling process additions of processes to said process list into its associated cache memory unit (2), for switching into a low-power mode if said process list contains no process for execution by said processor and for switching into a normal-power mode if said wake-up variable signals an addition of a process to said process list .

7. (Original) Method of scheduling the execution of processes in a multi-processor computer system comprising

- at least two processors (1) for parallel execution of processes,
 - at least two cache memory units (2), each being associated with and connected to a separate processor (1),
 - a connection bus (4) connecting said processors (1) and said cache memory units (2), and
 - a process list unit (3) connected to said connection line (4) for storing a process list of processes to be available for execution by said processors (1),
- said method comprising the steps of :
- loading a global wake-up variable signalling process additions of processes to said process list by a processor (1) into its associated cache memory unit (2),
 - adding a process to said process list, and

- changing the wake-up variable signalling said addition of a process to said process list thus causing said processor (1) to switch from a low-power mode into a normal-power mode.

8. (Original) Method of executing a process by a processor in a multi-processor computer system comprising

- at least two processors (1) for parallel execution of processes,
 - at least two cache memory units (2), each being associated with and connected to a separate processor (1),
 - a connection bus (4) connecting said processors (1) and said cache memory units (2), and
 - a process list unit (3) connected to said connection line (4) for storing a process list of processes to be available for execution by said processors (1),
- said method comprising the steps of :
- loading a global wake-up variable signalling process additions of processes to said process list into an associated cache memory unit (2),
 - switching into a low-power mode if said process list contains no process for execution by said processor (1),
 - switching into a normal-power mode if said wake-up variable signals an addition of a process to said process list, and
 - accessing said process list to get said added process for execution.

10. (Currently amended) Computer program comprising computer program code means for causing a computer to perform the steps of the method as claimed in claim 7 or 8-if said methods are executed by said computer.